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JPRS: 5020

14 July 1960

SOVIET ABSTRACTS
BIOLOGY

SECTION K - FORESTRY

Book No. 1, 1959

Abstracts 1433 thru 1513

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SELECTED TRANSLATIONS OF
ABSTRACTS IN REFERATIVNII ZHURNAL - BIOLOGIYA, No. 1, 1959

This report consists of complete translations of the Russian-language abstracts of articles, which were originally published in the Sino-Soviet bloc and in Yugoslavia.

The Soviet subject classification system used in the original Russian language abstracts has been followed in this publication.

JOURNAL : Poland
CATEGORY : Forestry. General Problems.
ABS. JOUR. : Ref Zhur-Biologiya, No. 1, 1959, No. 1437
AUTHOR : Zabko-Potopowicz, Antoni
INST. : Not given
TITLE : Forests and Forestry in Polish Lands in the First Half of the XIXth Century.
ORIG. PUB. : Sylwan, 1956, 100, No.7, 58-87
ABSTRACT : No abstract

CARD: 1/1

COUNTRY : Poland K
CATEGORY : Forestry . General Problems.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1438
AUTHOR : Wiecko, Edward
INST. : Not given
TITLE : Forests and Forestry in Polish Lands in the Second Half of the XIXth Century.
ORIG. PUB. : Sylwan, 1956, 100, No.7, 88-135
ABSTRACT : No abstract

CARD: 1/1

COUNTRY : Poland
CATEGORY : Forestry. General Problems.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1439
AUTHOR : Krysiuk, Franciszek
INST. : Not given
TITLE : Forests of Carpathia and their Importance for
the National Economy.
ORIG. PUB. : Sylwan, 1956, 100, No.10, 5-26
ABSTRACT : No abstract

CARD: 1/1

K
COUNTRY : Poland
CATEGORY : Forestry . Dendrology.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1441
AUTHOR : Maciejowski, Kazimierz
INST. :
TITLE : Larch in the Forests of Poland.

ORIG. PUB. : Sylwan, 1956, 100, No.11, 6-50
ABSTRACT : No abstract

CARD: 1/1

K

COUNTRY : USSR : K
 CATEGORY : Forestry . Dendrology.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1446

AUTHOR : Mishchenko, A.S.; Novikov, G.S.
 INST. : Inst. of Agriculture AS Turkmen SSR

TITLE : Treelike Willow - Main Species for Biological Melioration in the Flood Plain of the Amu-Darya River.

ORIG. PUB. : Tr. In-ta zemledeliya. AN TurkmenSSR, 1957, 1,
 199-214

ABSTRACT : The study of the biological characteristics of tree species which grow in the arid climate of Turkmenia showed that the tree-like willows are the best for the purpose of biological melioration. They are easily propagated, can grow in saline soils and with the ground water level near. At the age of 10 years already, they yield a considerable mass of valuable wood. The root system of willow is located to a depth of 1.5 m. and pumps out ground water at places

CARD: 1/3

COUNTRY : : K
 CATEGORY : :

ABS. JOUR. : : REF ZHUR - BIOLOGIYA, NO.1, 1959 : No.1446

AUTHOR : :
 INST. : :

TITLE : :

CARD: :

ABSTRACT : with near ground water. Treelike willows possess higher transpiration capacity than other species, while in linear plantations their vegetative mass reaches 60 to 70 kg. per 1 tree. During the vegetation period one tree in such plantations transpires 130 cu. m. of water. It was determined that one-row plantations along irrigators transpire up to 40,000 cu.m. per 1 km. during the vegetation season. Linear one-to-two row plantings of

CARD: 2/3

COUNTRY
CATEGORY

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 ;

AUTHOR
INST.
TITLE

No. 1446

OKIG. PUB. :

ABSTRACT : willow can completely intercept all water being filtrated. For the intake of water from large irrigators, it is essential to increase the number of rows in plantations. Graphs are given on the growth of treelike (Amu-Darya and steppe) willows in height and mass, their taxation indices, data on the daily course of transpiration intensity and the intensity of transpiration by months.

-- V.Y. Protopopov

CARD:

2/3

COUNTRY
CATEGORY

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 ; No.

AUTHOR
INST.

TITLE

OKIG. PUB. :

ABSTRACT :

CARD:

K

COUNTRY : U.S.S.R.
CATEGORY : Forestry. Dendrology.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1447
AUTHOR : Mishchenko, A.S.
INST. : Inst. of Agriculture AS Turkmen SSR
TITLE : Black Locust in the Valley of the Amu-Darya Middle Course.

ORIG. PUB. : Tr. In-ta zemledeliya AN TurkmSSR, 1957, 1,
184-198

ABSTRACT : An investigation of acacia plantations was made in 1951-1953. The value of black locust is indicated as a tree species for the districts of the Amu-Darya river's middle course, where normal plantations can be cultivated in the conditions of artificial irrigation. In case of 2000 trunks per 1 hectare the stock of average-aged plantings of black locust amounts to 85 cu.m. Mixed plantings of black locust and smooth-leaved elm have a larger stock of wood compared

CARD: 1/3

K

COUNTRY :
CATEGORY :
ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 : No. 1447
AUTHOR :
INST. :
TITLE :
KING. PUB. :

ABSTRACT : with the pure plantings. The black locust root system is marked by pliability. The main mass of roots is arranged in the soil horizon of 10 to 70 cm. The taproot goes to the depth of 1 m. The transpiration intensity of black locust is low at night (2 to 5 mg. in 3 minutes per 1 gr. of leaf); in daytime it reaches the maximum of 110 to 115 mg. Variation of the black locust's average transpiration intensity during the vegetation period is noted. It reaches the

CARD: 2/3

COUNTRY :
CATEGORY :

ABS. JOUR. : REF ZHUR. BIOLOGIYA, NO.1, 1959 ;

AUTHOR :
INST. :
TITLE :

No. 1447

ORIG. PUB. :

ABSTRACT : maximum value in July. Data are given on the water consumption by one tree in transpiration and the purpose of planting during the vegetation period. It is recommended that black locust be introduced in forest shelter belts.

-- V.V. Protopopov.

CARD: 3/3

COUNTRY :
CATEGORY :

K

ABS. JOUR. : ;

No. ,

AUTHOR :
INST. :
TITLE :

CRIG. PUB. :

ABSTRACT : ;

CARD:

K

COUNTRY : USSR
CATEGORY : Forestry. Dendrology.

ARS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1448

AUTHOR : Anisimova, A.I.
INST. : State Nikitsk Botanical Garden
TITLE : Trials of Species of Coloneaster Med. in the Crimea.

ORIG. PUB. : Byul. nauchno-tekh. inform. Gos. Nikitsk. botan. sad, 1957, No.3-4, 15-21

ABSTRACT : The findings are reported of the trials of 46 species and 16 varieties of Coloneaster Med. in the Nikitskaya botanical garden. The sorts that originated from the central, western and partly south-western parts of China proved to be most adapted to local conditions. Best growing of the evergreen sorts are C. Henryana, C. glaucophylla, C. pannosa, C. salicifolia with varieties, C. serotina, C. turbinata, C. horizontalis with varieties, C. buxifolia vellaea, C.

CARD: 1/2

K

COUNTRY :
CATEGORY :

ARS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 No. 1448

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : rubens and others; exfoliate species C. divaricata, C. hupehensis, C. nitens, C. adpressa with varieties v. praecox and others. The exfoliate C. multiflora, C. racemiflora, C. rosea and others are worthy of attention among the Mediterranean flora.

— V.I.Nekrasov

CARD: 2/2

COUNTRY : USSR K
CATEGORY : Forestry. Forest Management.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1450
AUTHOR : Matulionis, A.
INST. :
TITLE : Development of the Lithuanian SSR's Forest Economy in the Years of Soviet Power.

ORIG. PUB. : Musu Girlos, 1957, No.5, 3-10

ABSTRACT : Statistical data are cited on the forests of the Lithuanian SSR, which are characterized in the scope of forestry and timer exploitation measures. Problems of training forestry personnel and publishing special literature are touched upon.

CARD: 1/1

COUNTRY : K
CATEGORY :
ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 No.
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT :

CARD:

COUNTRY : USSR
CATEGORY : Forestry . Forest Management.
K

ABS. JOUR. : Ref Zhur_Biologiya, No.1, 1959, No. 1451

AUTHOR : Golikov, A.
INST. : Moldavian Forest Experimental Station
TITLE : The Work of Forestry Specialists.

ORIG. PUB. : Zemledeliye i zhivotnovodstvo Moldavii,
1958, No.2, 76-78

ABSTRACT : The results of ten years work of the Moldavian experimental forestry station are summarized. Developed were: a method of breeding oak of natural seed renewal in the upper canopy of planting, measures for conversion of low-value beech plantings with partially preserved oak in oak forests, agro-technology of growing transplant material and the creation of spindle tree and eucommia plantation, the winterhardy forms being selected. Recommendations are given

CARD: 1/2

COUNTRY :
CATEGORY :
K

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 ; No. 1451

AUTHOR :
INST. :

TITLE :

ORIG. PUB. :

ABSTRACT : on the assortment of trees and bushes, the construction of plantings and agro-technology of forest crops. The periods and means are determined for presowing preparation of the seeds of linden, spindle tree and Tatar maple. Considerable work has been done in field shelter belt forestation. -- V.I. Klimov

CARD: 2/2

COUNTRY : USSR K
CATEGORY : Forestry. Forest Management.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1452
AUTHOR : Sokolov, G.A.
INST.
TITLE : In the Bakhchisarayskye Forests.

ORIG. PUB. : Lesh. kh-vo, 1957, No.12, 62-65

ABSTRACT : Ruinous consequences of disorderly tree fellings that brought about derangement of the Bakhchisarayskye forests of historic importance, are noted. The experience is described of successful afforestation of mountain slopes denuded of forests with Crimean pine and ordinary pine, a work begun long before the Great Fatherland war. The most successful cultivations are described. The significance of reconstruction of natural fruit plantings is emphasized and the method described.
... L.V.Nesmelov

CARD: 1/1

COUNTRY : K
CATEGORY :
ABS. JOUR. : No.
AUTHOR :
INST.
TITLE :

ORIG. PUB. :

ABSTRACT :

CARD:

K

COUNTRY : USSR
 CATEGORY : Forestry . Forest Management.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1454

AUTHOR : Verkhunov, P.M.
 INST. : Siberian Sci.-Res. Inst. of Forest Management

TITLE : Defectiveness of Linden Timber Stands of the South-western Urals.

ORIG. PUB. : Sb. statey po lesn. kh-vu. Sibirst.
 n.-i in-t lesn. kh-va, Krasnoyarsk, 1958,
 1-33

ABSTRACT : A study was made of 2791 rooted trees and 276 felled specimens of linden in the Gafuriysky, Voskresensky, Makarovsky and Zigazinsky Leskhozes of Bashkiria at 14 test areas in brush plantings of 50 to 115-year old III - IV * classes with goutweed and gramineous sorts (0.4 - 0.8) participating in the forest types. Only 17.3 % of the trees did not have trunk defects. Crookedness, rot, hollowness, frostbite, knottness and canker are the most

*locality

CARD: 1/2

COUNTRY : K
 CATEGORY :

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 ; No. 1454

AUTHOR :

INST. :

TITLE :

ORIG. PUB. :

ABSTRACT : prevalent among the 10 kinds of defect met. With age the number of defective trees is increased. The greatest average length of commercial trunk wood (7.1 m.) was in trees without defects. It was found that the wood of the late-flowering forms of linden are less subject than the early-flowering forms to defectiveness (especially rot). Forestry measures to combat defectiveness are described.

CARD: 2/2

-- V.I. Klimov

COUNTRY : Rumania
CATEGORY : Forestry. Forest Management.
ABS. JOUR. : Ref Zhurh-Biologiya, No.1, 1959, No. 1460
AUTHOR : Radu, Stelian
INST. :
TITLE : Method of Investigating the Process of Natural Restoration.

ORIG. PUB. : Rev. padurilor, 1956, 71, No.2, 82-88
ABSTRACT : The definitions of the conception "natural restoration", best known in literature, are given; the author emphasizes that the conception "natural restoration" itself does not exclude human interference in the formation of new forest, but that, on the contrary, it is necessary to assist natural restoration to secure the most rapid regeneration of valuable species. Methods of investigating the fertility of forests are listed and briefly described.

CARD: 1/2

COUNTRY : X
CATEGORY :
ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 , No. 1460
AUTHOR :
INST. :
TITLE :
LANG. PIR. :

ABSTRACT : The means are examined of founding permanent and temporary test areas, methods of inventory-taking, drafting of test area maps with each tree pin-pointed, measurement of seed crop and self-seeding estimation.

— A.Yana

CARD: 2/2

COUNTRY : USSR
CATEGORY : Forestry. Forest Management.
ARS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1462
AUTHOR : Bystrov, V.N.
INST. : Bashkir Agric. Inst.
TITLE : Reconstruction of Plantings of Young Trees
in the Conditions of Bashkirian ASSR.
ORIG. PUB. : Tr. Bashkirst. s.-kh. in-ta, 1956, 7, 319-328
ABSTRACT : Two methods are indicated for reconstruction of
low-value young trees - care by tree-fellings
and cultivations. The technique is described
of tree-felling care for the purpose of
reconstruction and its economic foundation;
cultivation methods are also described.

CARD: 1/1

COUNTRY : Poland K
CATEGORY : Forestry. Forest Management.
ARS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1463
AUTHOR : Chodzicki, Edward
INST. :
TITLE : Reorganization of Carpathian Forests in Poland.

ORIG. PUB. : Sylwan, 1956, 100, No.10, 27-57

ABSTRACT : No abstract

CARD: 1/1

COUNTRY : GDR
CATEGORY : Forestry. Forest Management.
K

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1466

AUTHOR : Ertel'd, W.
INST.

TITLE : Modern Method of Investigation in the Field
of Forest Productivity.

ORIG. PUB. : Arch. Forstwesen, 1957, 6, No.5-6, 421-431

ABSTRACT : Increasing attention has of late been addressed
to investigation of problems of principle,
which renders essential the development of
methods that are more accurate than in the past.
A survey is given of the following important
problems in the field of forest productivity:
evalustion of plantings, effect of computation
methods, application of Eichhorn's law and
dynamic classification, problem of the so-called
"ideal" thinning and course of growth, and also

CARD: 1/2

COUNTRY :
CATEGORY : K

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 , NO. 1466

AUTHOR :

INST. :
TITLE :
:

ORIG. PUB. :

ABSTRACT : the productivity of the chief species in accord-
ance with habitat conditions. Modern ways and
means of solving the problems set are examined.

--P.E.Sarma

CARD: 2/2

COUNTRY : USSR
 CATEGORY : Forestry. Forest Management.
 ABS. JOUR. : Ref Zhur-Biologiya, No. 1, 1959, No. 1467
 AUTHOR : Levin, V.I.
 INST. :
 TITLE : New Graphic Method of Determining the Stock
 of Timber Stands.
 ORIG. PUB. : Izv. vyssh. uchebn. zavedeniy. Lesn. zh.,
 1958, No.1, 72-78
 ABSTRACT : Nomograms for spruce and pine groves of the
 north, drawn up by the author, are proposed
 for the purpose of simplification, without
 reducing the accuracy of results (in enumera-
 tional valuation) in determining the reserve
 stock. This method eliminates the need for
 multiplication of the tabular volume by the
 number of trees, inasmuch as the ready stock
 is given in the nomogram by height and
 sum the areas of stands. Put at the basis of

CARD: 1/3

COUNTRY : K
CATEGORY :
ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 , No. 1467
AUTHOR :
INST. :
TITLE :

ABSTRACT : the nomograms are the equations:

$$M = Q(0.414 \cdot H + \frac{0.34}{0.641 + 0.908 \cdot H} + 0.814)$$

 for pine

$$M = Q(0.416 \cdot H + 0.429 \cdot H + \frac{0.32}{0.647 + 0.898 \cdot H} + 0.767)$$

 for spruce
 where M is the reserve stock in the area of
 recalculation in cu.m.; Q is the sum of the
 stand areas in the recalculation area in sq.m.
 ; H is the average height of the timber stand in

CARD: 2/3

COUNTRY : USSR

CATEGORY : Forestry. Forest Management.

ABS. JOUR. : Ref Zhur-Biologiya, No. 1, 1959 ,
AUTHOR : NO. 1467
FIRST.
TITLE : .

ORIG. PUB. : .

ABSTRACT : meters. A description is given of the use of nomograms and stock determination by nomogram by means of the Bitterlich amplitude-measure (by visual estimation) remodelled by the author.
-- L.V.Nesmelov

CARD: 3/3

K

COUNTRY : USSR

CATEGORY : Forestry. Forest Management.

ABS. JOUR. : Ref Zhur-Biologiya, No. 1, 1959, No. 1468

AUTHOR : Moiseyev, V.S.; Pishchelin, M.I.
FIRST.

TITLE : Ways to Rationalize Means of Drawing Up Forest Plans in Various Types of Forest Management and Locale Relief Conditions.

ORIG. PUB. : Sb. statey po ustroystvu i obsledovaniyu lesov. I., 1958, 52-69

ABSTRACT : No abstract

COUNTRY USSR
CATEGORY Forestry . Forest Management.
ARS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1469
AUTHOR Samoylovich, G.G.
INST.
TITLE Method of Studying Aerial Evaluation Characteristics of Stands.

ORIG. PUB. Sb. stately po ustroystvu i obsledovaniyu
lesov. L., 1958, 26-34
ABSTRACT :No abstract

CARD: 1/1

K
COUNTRY USSR
CATEGORY Forestry . Forest Management.
ARS. JOUR. Ref Zhur-Biologiya, No.1, 1959, No. 1471
AUTHOR Kurzin, N.I.
INST.
TITLE Determination of the Age of Technical Maturity
of a Forest.

ORIG. PUB. Lesn. zh.-vo, 1958, No.5, 16-19
ABSTRACT :No abstract

CARD: 1/1

K

COUNTRY : USSR
 CATEGORY : Forestry . Forest Management.
 ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1472
 AUTHOR : Vagin, A.V.
 INST. :
 TITLE : Industrial Price-fixing of the Wood Stock
 to be Felled, by means of Maximal Output
 Coefficients of Grades.
 ORIG. PUB. : Izv. vyssh. uchebn. zavedeniy. Lesn. zh.,
 1958, No.2, 27-33
 ABSTRACT : No abstract

CARD: 1/1

K

COUNTRY : USSR
 CATEGORY : Forestry . Forest Management.
 ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1473
 AUTHOR : Tikhomirov, B.N.
 INST. : Siberian Forest Engineering Institute
 TITLE : Valuation Tables for Pine Timber Stands of
 the Angara River Basin.
 ORIG. PUB. : Tr. Sibirs. lesotekhn. in-ta, 1957, sb.
 16, 113-133
 ABSTRACT : No abstract

CARD: 1/1

K

COUNTRY : Yugoslavia
CATEGORY : Forestry. Forest Management.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1474

AUTHOR : Klepac, Dusan
INST.

TITLE : Annual Volume Increment Depending on the Diameter in Selected Plantings of Fir (Croatia)

ORIG. PUB. : Sunarski list, 1956, 80, No.1-2, 1-16

ABSTRACT : No abstract

:

CARD: 1/1

K

COUNTRY : USSR
CATEGORY : Forestry. Forest Management.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1475

AUTHOR : Kireyev, D.M.
INST.

TITLE : Experiments of Measuring Tree Heights by Planned Large-Scale Aerial Photographs.

ORIG. PUB. : Sb. statey po ustroystvu i obследovaniyu lesov.

L., 1958, 78-83
ABSTRACT : No abstract

:

CARD: 1/1

COUNTRY : USSR
CATEGORY : Forestry . Forest Management.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1476
AUTHOR : Zhukov, A.Ya.
INST.
TITLE : Experiment in Determining the Number of Trees
by Large-scale Aerial Photographs.
ORIG. PUB. : Sb. statey po ustroystvu i obsledovaniyu lesov.
L., 1958, 78-83
ABSTRACT : No abstract

CARD: 1/1

K

COUNTRY : USSR
CATEGORY : Forestry . Forest Management.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1476
AUTHOR : Kunin, S.N.
INST. : Ukrainian Agric. Acad.
TITLE : Nature and Management of Forest Economy in
Kalininograd Forests.
ORIG. PUB. : Sb. stud. nauchno-issled. rabot Ukr. s.-kh.
akad., 1958, vyp. 3, 153-156
ABSTRACT : No abstract

CARD: 1/1

COUNTRY : USSR
CATEGORY : Forestry, Forest Management.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1479
AUTHOR : Mikhaylov, L.Ye.
INST. :
TITLE : White Willow and Black Poplar Economy in the District of the Volgo-Akhtubinsk Flood Plain.
ORIG. PUB. : Lekh. kh-vo. 1958, No.6, 19-21
ABSTRACT : No abstract

CARD: 1/1

COUNTRY : Rumania K
CATEGORY : Forestry, Forest Cultures.
ABS. JOUR. : Ref Zhur-Biologiya, No. 1, 1959, No. 1482
AUTHOR : Lazarescu, C.
INST. :
TITLE : Application of Biometric Method in Standardization of Forest Seeds.
ORIG. PUB. : Rev. padurilor, 1957, 71, No.3, 157-159
ABSTRACT : It is proposed that on the basis of biometric data seeds be graded in 4 classes: (a) $M - \sigma$; (b) from $M - \sigma$ to M ; (c) from M to $M + \sigma$; (d) $M + \sigma$, where M is the mean-weighted value of a given characteristic, and σ is the standard deviation. In individual selection, it is proposed that seeds of the first and fourth classes be employed.

-- A.Yana

CARD: 1/1

K

COUNTRY : USSR
CATEGORY : Forestry. FOREST CULTURES.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1483

AUTHOR : Khristeva, L.A.; Ponomarenko, V.A.;
INST. : Kharkov Univ. Kotlyuba, V.G.

TITLE : Effect of Humic Fertilizers on the Growth of Pine, the Chief Afforestation Culture of the Lower Dnieper Sands.

ORIG. PUB. : V sb.: Gurninovye udobreniya. Khar'kov Khar'kovsk. un-t, 1957, 313-330

ABSTRACT : By experiments at the Golopristanskiy Les-khoz(1953), it was established that humic fertilizers raise the vitality and drought-resistance of pine in the lower Dnieper sands. It is recommended that in nurseries humophos and watering with a 0.001 % solution of sodium humate be applied in combination with supplementary mineral fertilizers. It is expedient to activate planting material of a different district by wetting the root system.

CARD: 1/2

K

COUNTRY :
CATEGORY :

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 , N. 1483

AUTHOR :
INST. :

TITLE :

ORIG. PUB. :

ABSTRACT : of seedlings in an 0.002 % solution of sodium humate and in a mixer of humophos.

-- L.V. Nesmelov

CARD: 2/2

K

COUNTRY : USSR
CATEGORY : Forestry, FOREST CULTURES.

ART. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1484

AUTHOR : Danilova, A.A.
INST. : Povolzh'ye Forest Engineering Inst.

TITLE : Experiment in Use of Fertilizers in Growing Seedlings of Certain Species.

ORIG. PUB. : Sb. tr. Povolzhsk. lesotekhn. in-t, 1957 (1958),
ABSTRACT : No abstract

CARD: 1/1

K

COUNTRY : USSR
CATEGORY : Forestry, FOREST CULTURES.

ART. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1486

AUTHOR : Verich, F.P.; Oberto, V.I.
INST. : Voroshilovgrad Leskhoz

TITLE : Growing of White Willow and Black Poplar Seedlings in the Donbas Conditions.

ORIG. PUB. : Lesn. kh-vo, 1958, No.1, 75-76

ABSTRACT : An experiment at the Voroshilovgrad Leskhoz in growing seedlings of white willow and black poplar from seeds is described. Fertile shoots were stuck into beds at the nursery. The seeds began almost at once to come out and in two days (with intensified watering) fine sprouts appeared. The number of shoots recommended is not more than 30 specimens per 1 sq.m.

CARD: 1/1

COUNTRY : Bulgaria
CATEGORY : Forestry .FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1487
AUTHOR : Daskalov
INST. :
TITLE : Our (Bulgaria) Experience in Producing Linden Planting Material in the Forest Nursery in the District of the City, St. Dmitrov, in 1956.
ORIG. PUB. : Gorsko stepanstvo, 1957, 13, No.4, 180
ABSTRACT : Described are the technique and periods of linden seed stratification, the methods of preparing soil, sowing, the care for sowings and sprouts and other agricultural measures. Successful results in the growing of seedlings are noted.

CARD: 1/1

COUNTRY :
CATEGORY :
ABS. JOUR. : Wo.
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT :

CARD:

COUNTRY : Bulgaria
 CATEGORY : FORESTRY . FOREST CULTURE.

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1488

AUTHOR : Palashev, Ivan
 INST. : Ministry of Agriculture and Forestry

TITLE : Depth of Sowing Acorns. Preliminary Findings.

Nauchin tr. M-vo zemed i gorite. Ser. ras-
 ORIG. PUB. : teniyev"dstvi, 1958, 3, No.1, 43-48

ABSTRACT : Observations of acorns Quercus cerris sown by the nest method were conducted in 1951 and 1953-1954 to ascertain the optimal depth for sowing acorns in the conditions of southeast Bulgaria. It was determined that differing depth of sowing determines variation of seedlings in respect to quality and quantity. The highest germination is observed with spring sowing at a depth of 5 cm. The percentage of germination is reduced in proportion to the

CARD: 1/2

COUNTRY :
 CATEGORY :
 ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 ; NO. 1488
 AUTHOR :
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT : increase of depth. The best results in spring sowing are obtained with acorns imbedded at 8 cm. in a heap of earth. In all cases the maximal growth of seedlings is noted with sowing depth of 5 to 8 cm. With other conditions equal, spring sowing is most effective.

-- L.V.Nesmelov

CARD: 2/2

K

COUNTRY : USSR : KOLYAGIN,
 CATEGORY : Forestry

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1489

AUTHOR : Semenkova, I.G.
 INST. : Moscow Agric. Acad. imeni K.A. Timiryazev

TITLE : Problem of the Effect Specific Weight of
 Acorns Has on their Sowing Qualities and
 Susceptibility to Diseases.

ORG. PUB. : Dokl. Mosk. s.-kh. azhad. im. K.A. Timiryazeva,
 1957, vyp. 31, 155-161

ABSTRACT : Acorns from Voronezhskaya, Bryanskaya, Moskovskaya Oblasts
 and also from the Lithuanian and Georgian SSR
 were investigated in 1955-1956 at the Phyto-
 pathological Faculty of the Timiryazev Agri-
 cultural Academy and at the Buturlinovskiy
 Leskhoz (Voronezhskaya Oblast). A solution of
 Ca chloride (with specific gravity of 1.20
 and 1.10) and water was used for the separation
 of acorns according to specific weight. After
 sorting, four fractions of acorns were received

CARD: 1/2

K

COUNTRY :
 CATEGORY :

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 ; No. 1489

ABSTRACT : with the following specific weights: >1.2;
 1.1 - 1.2; 1.0 - 1.1; <1.0. The acorns with
 the higher specific weight are distinguished
 by higher sowing qualities, while the oak seed-
 lings derived from such acorns grow better and
 are to a lesser degree subject to powdery mildew.
 Such acorns are better preserved over winter
 and are found more resistant to fungus
 diseases. The sorting of acorns according to
 specific weight before putting them into winter
 storage should be considered an expedient mea-
 sure to eliminate the expense of storage and
 fungicidal treatment of acorns known to be of
 low grade.

N.Ye.Skripitsyna

CARD: 2/2

K

COUNTRY

FORESTRY, FOREST CULTURES

ABS. JOUR.

Ref Zhur-Biologiya, No.1, 1959, No. 1490

AUTHOR

Spirchez, Z.

INST.

TITLE : Increase of Acorn Crop Yield in National Forest Seed Preserves.

ORG. PUB. Rev. padurilor, 1957, 71, No.10, 632-635

(s)

ABSTRACT

: The questions examined are: (a) in the conditions of the RNR (Rumanian Peoples Republic) does the oak bear fruit annually or periodically; (b) the search of means to raise the crop yield of acorns. Observations and experiments in national seed forests and forest farms resulted in the finding that the flowering is characterized by annual fluctuations in intensity. The periodic character of fruit-bearing is a result of the unfavorable effect

CARD:

1/2

COUNTRY
CATEGORY

K

ABS. JOUR.

REF ZHUR - BIOLOGIYA, NO.1, 1959 : No. 1490

AUTHOR
INST.

TITLE

ORG. PUB.

ABSTRACT

: of biological or climatic factors. Raising the acorn harvest-yield is possible through the removal of underbrush, special tilling of the soil and placement of mineral and organic fertilizers. In founding national seed forests it is recommended that the amplitude be reduced to 0.7 in 3 to 4 stages (during 8 to 9 years).

-- A.Yana

CARD:

2/2

COUNTRY : USSR K
CATEGORY : Forestry. FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1491
AUTHOR : Sechnyak, L.K.
INST. : Krymskaya Oblast State Agr. Exper. Station
TITLE : Hill Sowings of Oak in the Crimean Steppe.

ORIG. PUB. : Tr. Krymsk. obl. gos. s.-kh. opytn. st.,
1956, 2, 85-97
ABSTRACT : By observations of the condition of hill sowings
of oak in the central steppe district of the
Crimean peninsula in southern chernozems, it was
established that all the hill sowings founded
in 1949-1951 under a cover of grain crops and
perennial grasses, perished completely in the
first 1 to 2 years in the conditions of the
arid climate of this zone and frosts reaching
minus 33° in winter. The only oak sowings pre-
served partially were those where inspite of

CARD: 1/3

COUNTRY : K
CATEGORY :
ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 , NO,1491

ABSTRACT : instructions, the cover crops were removed from
the nests by weeding and the soil was loosened.
In experimental hill sowings of oak, planted
in 1953 without cover crops, with high agro-
technique and careful subsequent tending of
the soil and plants to the end of the second
vegetation season, 6480 to 13,040 oaks per 1
hectare were preserved in various belts with
the average plant height reaching 10.0 to 20.9
cm. In row-hole sowings two-years old of the
same period 11,020 to 16,640 oaks per 1 hectare

CARD: 2/3

COUNTRY :
CATEGORY :

ARS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 ,
 AUTHOR : No. 1491
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT : were preserved in various belts with the average plant height reaching 10.0 to 16.7 cm. The placement of mycorrhiza did not have a marked effect on the growth and survival of oak. A dependence between the height of the oak and the method of sowing the acorns was not found. It is indicated that the method of hill crops without care of the soil and plants is inadmissible in a dry steppe.
 D.I.Deryabin.

CARD: 3/3

COUNTRY :
CATEGORY :

ARS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 ,
 No.

AUTHOR :
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT :

CARD:

K

COUNTRY : Bulgaria
CATEGORY : Forestry . FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1496
AUTHOR : Petkuts, N.
INST. : Soil Inst. Bulgarian AS
TITLE : The Beginning of Field Shelter-belt Forestation
in Rumania and the System of Field Shelter-Belts
in Karvun.
ORIG. PUB. : Izv. Pochv. in-t. B"lg. AN, 1957, 4,
411-420
ABSTRACT : Field Shelter forest belts were founded in
Karvun in the 1936 to 1940 period with the
use of very diversified assortment of tree-
shrub species. The species were combined
chiefly to make possible the development of
plantings with triangular and trapezoid profile.
The agrotechnique of the Karvun forest belts
is given, the principles of selecting species
are described and recommendations are cited
for the care of plantings. Observations of

CARD: 1/2

COUNTRY :
CATEGORY :
ABS. JOUR. : REF ZHUR . BIOLOGIYA, NO.1, 1959 : No. 1496
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT : belt development established the advantage of
the mixed composition over the pure acacia
plantings which had been practised in the
initial period of field shelter belt forestation
in the country (1879-1881). Data are given on
the growth of belts and their shelter efficiency.

--L.V.Nesmelov.

CARD: 2/2

K

COUNTRY : USSR
CATEGORY : Forestry . FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1497
AUTHOR : Yatsyno, L.P.
INST.
TITLE : The Growth and Restoration of Forest Belts in Ordinary Chernozems of the Middle Volga Region.

ORIG. PUB. : Lesn. kh-vo, 1958, No.1, 28-31

ABSTRACT : Narrow and broad (400 to 600 m.) belts were investigated in a number of sections of Saratov and Kuybyshev oblasts. In the majority of cases elm predominates in the belts, but at a number of places by tree-felling maintenance, a predominance of oak, birch, ash and pine has been attained. It was determined that with increase of age the belts decline in height gain and change to lower locality* which is, however, compensated by the increase in thickness gain.

* class

CARD: 1/2

K

COUNTRY :
CATEGORY :
ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959 : NO. 1497
AUTHOR :
INST. :
TITLE :
CRIG. PUB. :

ABSTRACT : The elm, ash and oak reduce the locality class 1.5 to 3 classes, while the birch, maple and pine reduce by 0.5 to 1 class. The narrow belt plantings have higher average diameter than the usual (by 1.5 to 2.2 times), but the number of trunks in them is less. The sparsity of stand is covered by the greater thicknesses. In 50 to 60 years the majority of deciduous trees preserve brush growth capacity (excepting birch). Seed restoration is feeble,

CARD: 2/2

COUNTRY :
CATEGORY :

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO.1, 1959

No. 1497

AUTHOR :
TITLE :

ORIG. PUB. :

ABSTRACT : *...and Norway maple and ash give good second growth. The effect of tree-felling maintenance on the form and structure of plantings is described. Recommendations are given on selection of restorative tree-fellings.*

... L. V. Nesmelov

CARD: 363

COUNTRY :
CATEGORY :

ABS. JOUR. :
TITLE :

No.

AUTHOR :
INST. :

ORIG. PUB. :

ABSTRACT :

CARD:

COUNTRY : USSR
CATEGORY : AGRICULTURE
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1498
AUTHOR : Kosourov, Yu.F.
INST. :
TITLE : Crop Gain in Irrigated Conditions and the Lower Limit of Optimal Soil Moisture-Content.

ORIG. PUB. : Lesn. kh-vo, 1957, No.12, 68-70

ABSTRACT : Observations were made in the shelter belt of the Volga-Don Canal on 2 to 3 year old irrigated cultivations of green ash, black locust and littleleaf elm in light-chestnut light-loamy soil with watering, in dark-colored medium-loamy soil with and without watering. The observation method is briefly set forth. It was determined that the seasonal gain in cultivations is extremely uneven and closely connected with the supplies of available moisture

CARD: 1/3

COUNTRY :
CATEGORY :
ABS. JOUR. : REF ZHUR - BICLOGIYA, NO.1, 1959 No. 1498
AUTHOR :
INST. :
TITLE :

ORIG. PUB. :
ABSTRACT : in the layer inhabited by roots. In case of soil moisture deficiency, the average-daily gain drops abruptly, and when moisture content is close to unavailable, is discontinued entirely. Replenishment of water reserves determines the renewal of growth gain. Characteristics are given of the course of gain during the vegetation season by species.

-- L.V.Nesmelov

CARD: 2/3

COUNTRY : USSR K
CATEGORY : Forestry. FOREST CULTURES.
ARS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1503
AUTHOR : Kushnikov, N.; Gavrilov, A.
TITLE : Collection of Seeds of Yellow Pine.

ORIG. PUB. : Lesn. kh-vo, 1958, No.4, 78-79
ABSTRACT : No abstract

CARD: 1/1

COUNTRY : GDR K
CATEGORY : Forestry. FOREST CULTURES.
ARS. JOUR. : Ref Zhur-Biologiya, No., 1959, No. 1504
AUTHOR : Belitz, G.
INST. :
TITLE : Various Times for Planting Pine Cultivations
(German Democratic Republic)

ORIG. PUB. : Forst und Jagd, 1958, 8, No.3, 105-108
ABSTRACT : No abstract

CARD: 1/1

COUNTRY : USSR K
CATEGORY : Forestry . FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1505
AUTHOR : Afonin, A.K.; Turenko, A.P.
INST. : --
TITLE : Planning of Shelter-Belt Forestation in the
Golodny Steppe.

ORIG. PUB. : Lesn. kh-vo, 1958, No.5, 22-24
ABSTRACT : No abstract

CARD: 1/1

COUNTRY : USSR K
CATEGORY : Forestry . FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1506
AUTHOR : Komissarov, N.A.
INST. : --
TITLE : Experience of Shelter-belt Forestation in the
Verkhne-Mokshanskiy Lekhkoz.

ORIG. PUB. : Lesn. kh-vo, 1958, No.5, 65-66
ABSTRACT : No abstract

CARD: 1/1

COUNTRY : USSR K
CATEGORY : Forestry .FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1507
AUTHOR : Gavrik, O.Ya.
INST. : Ukrainian Agric. Acad.
TITLE : Growth of Tree Species in the Forest Belts
of the "Pobeda" Kolkhoz, Malo-Viskovskiy
Rayon, Kirovogradskaya Oblast.
ORIG. PUB. : Sb. stud. nauchno-issled. rabot Ukr. s.-kh.
akad., 1958, vyp. 3, 145-147
ABSTRACT : No abstract

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CARD: 1/1

COUNTRY : USSR K
CATEGORY : Forestry .FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1508
AUTHOR : Fedorenko, S.I.
INST. :
TITLE : State Forest Shelter Belt of Belgorod-Don.
ORIG. PUB. : Leon. kh-vo, 1958, No.5, 5-9
ABSTRACT : No abstract

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CARD: 1/1

COUNTRY : USSR
CATEGORY : Forestry. FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1509
AUTHOR : Yelinetskiy, L.M.
INST. : --
TITLE : Convincing Data on the Effect Forest Belts
Have on the Crop Yield.
ORIG. PUB. : Lesn. zh.-vo, 1958, No.5, 33-34
ABSTRACT : No abstract

CARD: 1/1

COUNTRY : USSR
CATEGORY : Forestry. FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1510
AUTHOR : Voronin, I.V.; Popov, V.M.
INST. : --
TITLE : Economic Importance of Forest Belts in the Work
of the South-eastern Railway.
ORIG. PUB. : Izv. vyssh. uchebn. zavedeniy. Lesn. zh., 1958,
No.2, 34-40
ABSTRACT : No abstract

CARD: 1/1

K

COUNTRY : USSR
CATEGORY : Forestry FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1511
AUTHOR : Kapustinskaite, T.
INST. :
TITLE : Means of Breeding Black Alder (Lithuania)

ORIG. PUB. : Soc. zemes ukiis, 1956, No.8, 48-51

ABSTRACT : No abstract

CARD: 1/1

COUNTRY : USSR
CATEGORY : Forestry FOREST CULTURES.
ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1513
AUTHOR : Pekshibayev, M.I.
INST. :
TITLE : The Kuban Chestnut Groves - A Valuable Seed
Base
ORG. PUB. : Sb. rabot po lesn. kh-vu Sev. Kavkaza.
Vyp. 3, Maykop, 1958, 137-145
ABSTRACT : No abstract

: 1471

END

CARD: 1/1